

**AMENDMENTS TO THE SPECIFICATION****IN THE SPECIFICATION:**

Please replace the paragraph beginning on Page 8 Line 11 with the following amended paragraph:

The thiol compounds react a gold surface to form a ~~gold-systeamine (Au-S)~~ gold-sulfur (Au-S) bonding. Among them, by using an alkanthiol compound, the Au-S bonding and additionally Van der Waals interaction between the alkyl chains function. Consequently, it becomes possible to form a monolayer having a high orientation and free from defects. Such monolayer is called as a self-assembled monolayer. A modification of the gold electrode 16 by the self-assembled monolayer 18 can be performed only by dipping the gold electrode 16 into a solution of thiol compounds.